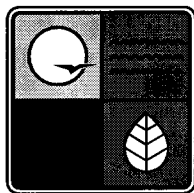
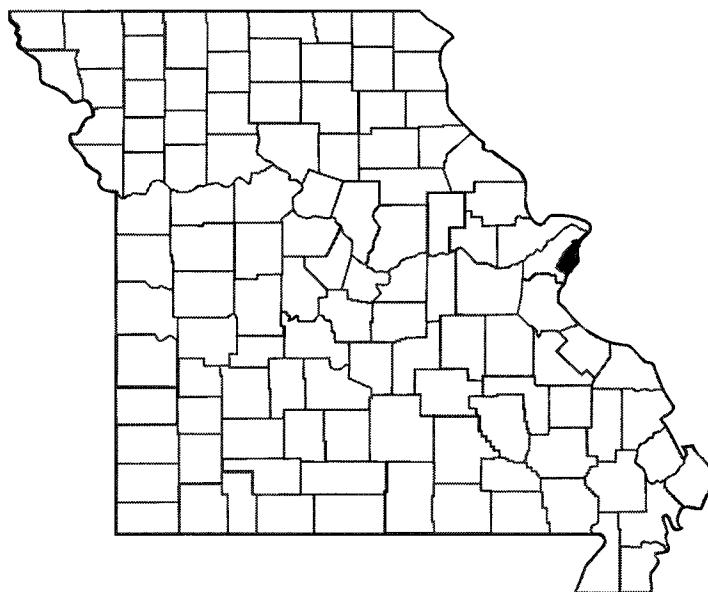


PRE-CERCLIS SITE SCREENING REPORT

M. Holtzman Metal Co. Site
St. Louis, Missouri

August 31, 2006



Missouri Department of Natural Resources
Division of Environmental Quality
Hazardous Waste Program

MISSOURI SUPERFUND PRE-CERCLIS SITE SCREENING FORM

I. SITE NAME AND LOCATION

Name: M. Holtzman Metal Company

Alias:

Address or other Location Identifier: 5223 McKissock Ave.

City: St. Louis

County: St. Louis

State: MO

Zip: 63147

Directions to Site: From the intersection of Interstate 70 and East Carrie (exit 246A) travel north on East Carrie approximately 0.1 mile and turn right on North Broadway. Continue on North Broadway approximately 0.5 mile and turn left onto Talcott Avenue. Take Talcott two blocks to McKissock Avenue and turn left on McKissock.

Map Attached: X

II. SITE REFERRAL INFORMATION

Referred By: Citizen petition to the Environmental Protection Agency (EPA), Region 7

Date of Referral: 11/13/03

Reason for Referral (if applicable): Concern regarding lead contamination in surface soils near former smelters.

Mailing Address:

City:

State:

Zip:

Telephone:

Fax:

III. SITE INFORMATION

Type of Facility: Former lead or zinc smelter or processing facility

Type of Ownership:

Owner Name: Unknown

Mailing Address:

City:

State:

Zip:

Telephone:

Fax:

Operator Name (if different from owner):

Mailing Address:

City:

State:

Zip:

Telephone:

Fax:

Current Site Status:

Years of Operation:

Operational History:

In November of 2003, a citizen petitioned the EPA to determine the potential for soil contamination resulting from operation of former lead smelters within the City of St. Louis (Reference 5). It is common to find lead contamination in soils, groundwater, and surface water surrounding lead mines, mills and smelter sites. The contamination around smelters comes from dust fallout from the furnace smokestacks, the production process, and the slag piles. These operations have the potential to produce waste containing high levels of lead and other metals which may have been deposited in surface soils both on and surrounding the sites.

There is no operational history available at this time for the M. Holtzman Metal Company. The site was referred to the Missouri Department of Natural Resources on November 13, 2003 by EPA Region 7. The M. Holtzman Metal Company was cited in Appendix B: Babbitt Metal and Solders Smelters from William Eckel's study published in the

MISSOURI SUPERFUND PRE-CERCLIS SITE SCREENING FORM

American Public Health Journal (Reference 5). This site was one of fifteen sites investigated as part of the Former St. Louis Lead and Zinc Smelting and Processes Sites study.

IV. CERCLA APPLICABILITY [40 CFR 300.410(E)]

1. Is there a release as defined by the NCP? Yes X No

Explain:

Sampling documented a release of lead in the surface soils within one mile of the former facility. Surface soils in four locations contained levels of lead that were significantly above (more than three times) background concentrations established for the site.

(A RELEASE Is Defined As Any Spilling, Leaking, Pumping, Pouring, Emitting, Emptying, Discharging, Injecting, Escaping, Leaching, Dumping, Or Disposing Into The Environment (Including The Abandonment Of Barrels, Containers, And Other Closed Receptacles Containing Any Hazardous Substances Or Pollutant Or Contaminant), But Excludes: Workplace Exposures; Engine Exhaust Emissions; Nuclear Releases Otherwise Regulated; And The Normal Application Of Fertilizer. For Purposes Of The NCP, Release Also Means Threat Of Release.)

2. Is the source a facility or vessel as defined by the NCP? Yes X No

Explain: The contaminated soil (source) is likely attributable to former lead-based paint and leaded gasoline use in the area.

(A FACILITY Is Defined As Any Building, Structure, Installation, Equipment, Pipe Or Pipeline (Including Any Pipe Into A Sewer Or POTW), Well, Pit, Pond, Lagoon, Impoundment, Ditch, Landfill, Storage Container, Motor Vehicle, Rolling Stock, Or Aircraft Or Any Site Or Area, Where A Hazardous Substance Has Been Deposited, Stored, Disposed Of, Or Placed, Or Otherwise Come To Be Located; But Does Not Include Any Consumer Product In Consumer Use Or Any Vessel. A VESSEL Is Defined As Any Description Of Watercraft Or Other Artificial Contrivance Used, Or Capable Of Being Used, As A Means Of Transportation On Water Other Than A Public Vessel.)

3. Does the release involve either a hazardous substance, pollutant or contaminant as defined by the NCP? Yes X No

Explain:

The hazardous substance released is lead.

(A HAZARDOUS SUBSTANCE Means Any Substance, Element, Compound, Mixture, Solution, Hazardous Waste, Toxic Pollutant, Hazardous Air Pollutant, Or Imminently Hazardous Chemical Substance Or Mixture Designated Pursuant To The CWA, CERCLA, SDWA, CAA Or TSCA. The Term Does Not Include Petroleum Products, Natural Gas, Natural Gas Liquids, Liquefied Natural Gas, Synthetic Gas Or Mixtures Of Natural And Synthetic Gas. The Definition Of POLLUTANT Or CONTAMINANT Includes, But Is Not Limited To, Any Element, Substance, Compound, Or Mixture, Including Disease-Causing Agents, Which After Release Into The Environment And Upon Exposure, Ingestion, Inhalation, Or Assimilation Into Any Organism, Either Directly From The Environment Or Indirectly By Ingestion Through Food Chains, Will Or May Reasonably Be Anticipated To Cause Death, Disease, Behavioral Abnormalities, Cancer, Genetic Mutation, Physiological Malfunctions Or Physical Deformations, In Such Organisms Or Their Offspring. The Term Does Not Include Petroleum Products, Natural Gas, Natural Gas Liquids, Liquefied Natural Gas, Synthetic Gas Or Mixtures Of Natural And Synthetic Gas.)

4. Is the release subject to the limitations on response? Yes No X

Explain:

(The LIMITATIONS ON RESPONSE Provisions Of The NCP (40 CFR 300.400(B) States That Removals Shall Not Be Undertaken In Response To A Release: Of A Naturally Occurring Substance In Its Unaltered Or Natural Form; From Products That Are A Part Of The Structure Of, And Result In Exposure Within, Residential Buildings Or Business Or Community Structures; Or Into Public Or Private Drinking Water Supplies Due To Deterioration Of The System Through Ordinary Use.)

MISSOURI SUPERFUND PRE-CERCLIS SITE SCREENING FORM

5. Is there a potential for other federal or state response mechanisms?

Yes ☐ No ☒

If so, identify the appropriate program:

☐ RCRA

☐ NRC

☐ FIFRA

☐ UST

☐ State VCP

☐ Other State Deferral

☐ Other Federal ()

Explain:

V. PATHWAY EVALUATION

1. Source and Waste Characteristics

Source Types and Locations: The contaminated soil (source) is likely attributable to lead-based paint used in residential buildings and the former use of leaded gasoline.

Size of Sources: The source sizes are limited to areas near major roadways and areas where vacant houses have been demolished.

Waste Types and Quantities: The quantity of contaminated soil is unknown at this time.

Hazardous Substances Present: Lead

2. Groundwater Use and Characteristics Within 4 Miles

General Hydrology:
Unknown

Are Karst Features Present on or Near Site: Unknown

Depth to Shallowest Groundwater: Unknown

Groundwater Wells Within 4 Miles: Unknown

Private Wells:

Municipal Wells:

Industrial/Agricultural Wells:

Locations and Populations Served (if known):

Distance to Nearest Drinking Water Well: Unknown

3. Surface Water Use and Characteristics

Is Site in a Flood Plain: Unknown **If Yes,** ☐ 10 year ☐ 100 year ☐ 500 year

Distance to Nearest Surface Water: Unknown
(If within 2 miles, fill out surface water pathway)

MISSOURI SUPERFUND PRE-CERCLIS SITE SCREENING FORM

List Surface Water Bodies Within 15 Downstream Miles:

Drinking Water Intakes Within 15 Downstream Miles: Unknown

Locations and Populations Served (if known):

Fisheries, Sensitive Environments or Wetlands Within 15 Downstream Miles: Unknown

Significant Features (if known or applicable):

4. Soil and Air Exposure Characteristics

Number of People Living Within 200 Feet of Site: Unknown, heavy urban area.

Number of Schools or Daycares Within 200 Feet of Site: Unknown

General Population Within 4 Miles (rural, small city, heavy urban area, etc...): Heavy urban

Number of Workers On-Site:

Any terrestrial sensitive environments and/or wetlands present on-site? Yes ___ No ___

Is site access restricted? Yes ___ No X

VI. SUPERFUND SITE SCREENING CRITERIA [40 CFR 300.410(e)]

1. Does the quantity or concentration of hazardous substances warrant response? Yes ___ No X

Explain:

Eighteen soil samples were collected from ten sampling locations within one mile of the former facility location. One location (a park) outside of a one-mile radius from the site was designated as a background location. Three soil samples were collected from this background location.

Lead concentrations for sampling locations within one mile of the site ranged from 26 ppm to 558 ppm. Of the ten locations sampled, three locations contained lead in the surface soils above the EPA PRG of 400 ppm lead: a roadway near a vacant lot (558 ppm lead), a vacant lot (435 ppm), and a roadway in a park (416 ppm).

MISSOURI SUPERFUND PRE-CERCLIS SITE SCREENING FORM

2. Has a PRP been identified?

Yes ☐ No ☒

Explain:

3. Is there an actual or potential exposure to hazardous substances, pollutants or contaminants?

Yes ☒ No ☐

Explain:

Exposure to contaminated soil is possible through contact with the soil. However, the contaminated soil is limited two small areas near busy roadways and one vacant lot in a residential area. All of these areas have well established vegetation.

4. Is there an actual or a potential threat for contamination of drinking water supplies?

Yes ☐ No ☒

Explain:

At this time, a threat to drinking water supplies is not expected. Groundwater contamination is unlikely because the contamination has been deposited into the surface soils and is not believed to be at depth.

5. Are there hazardous substances, pollutants or contaminants in drums, barrels or bulk storage containers?

Yes ☐ No ☒

Explain:

No drums, barrels, or bulk storage containers were noted in the residential areas sampled.

6. Are there high levels of hazardous substances, pollutants or contaminants in surface soils?

Yes ☐ No ☒

Explain:

Soil on-site contained levels of lead greater than the EPA PRG screening level of 400ppm lead but below the time-critical removal action level of 1200ppm lead for residential settings. Additionally, this contaminated soil is localized to three small areas: a vacant lot and two roadways.

("High levels" may be determined by streamlined risk assessments, health consultations, state or federal soil screening criteria, and/or Superfund program policies or directives.)

7. Are there conditions on site which may be susceptible to impact from adverse weather conditions?

Yes ☐ No ☒

Explain: The vegetation is well established in all three locations with contaminated soils. The migration of lead within the surface soils during adverse weather conditions is unlikely.

MISSOURI SUPERFUND PRE-CERCLIS SITE SCREENING FORM

8. Is there a threat of fire or explosion?

Yes ☐ No ☒

Explain: Lead contaminated soil is not flammable or explosive.

9. Are there other situations or factors which warrant further Superfund response?

Yes ☐ No ☒

Explain:

MISSOURI SUPERFUND PRE-CERCLIS SITE SCREENING FORM

VII. SUPERFUND SITE SCREENING FINDINGS AND RECOMMENDATIONS

SITE SCREENING FINDINGS

Answer the following questions as support for the site recommendation.

| Yes | No | Condition or Factor | Yes | No | Condition or Factor |
|-----|----|--|-----|----|---|
| X | | Is there a release or threat of release? | X | | Is there a direct soil exposure pathway threat? |
| X | | Is the source a facility or vessel? | | X | Are there high levels of contaminants in surface soils? |
| X | | Does the release involve a hazardous substance, pollutant, or contaminant? | | X | Is there an air pathway threat? |
| | X | Is the site subject to response limitations? | | X | Is there a threat of fire or explosion? |
| | X | Does the quantity or concentration of hazardous substances warrant response? | | X | Are there drums, barrels, or bulk storage containers present? |
| X | | Are there actual or potential exposure threats? | | X | Is the site susceptible to adverse weather conditions? |
| | X | Is there an actual or a potential threat for contamination of drinking water supplies? | | X | Is there a willing/capable PRP response? |
| | X | Is there a surface water pathway threat? | | X | Can the site be referred to another program? |

SITE SCREENING RECOMMENDATIONS

| | |
|---|--|
| X | Superfund CERCLIS Entry Not Warranted No Further Superfund Response Action Required |
| | Superfund CERCLIS Entry Warranted Not Recommended For CERCLIS Entry At This Time – Other Response Action Planned |
| | Superfund CERCLIS Entry Warranted Recommended For CERCLIS Entry – Additional Integrated Assessment Recommended |
| | Superfund CERCLIS Entry Warranted Recommended For CERCLIS Entry – Removal Action Recommended <i>(Complete A Removal Evaluation Form)</i> ___ Emergency ___ Time-Critical ___ Non-Time-Critical |

Comments:

The M. Holtzman Metal Company Site is not recommended for entry into CERCLIS at this time. Sampling documented that lead was present above EPA PRG residential screening levels in surface soils within one mile of the site. Although the concentrations of lead exceed the EPA PRG screening level, there is no evidence of wide spread contamination due to smelting activities in the area. The lead contamination is localized to small areas near busy roadways and in a vacant lot where a house was previously demolished. The contaminated soil (source) is likely attributable to former leaded gasoline and lead-based paint use.

MISSOURI SUPERFUND PRE-CERCLIS SITE SCREENING FORM

VIII. ADDITIONAL INFORMATION OR COMMENTS

PREPARED BY:

NAME: Greg Bach SIGNATURE: _____ DATE: _____

REVIEWED BY:

NAME: _____ SIGNATURE: _____ DATE: _____

APPROVED BY:

NAME: _____ SIGNATURE: _____ DATE: _____

Figure 1

M. Holtzman Metal Co.
St. Louis City, MO

Legend

Smelter Locations

Project Type

- ★ Site Screening
- ☆ Site Reassessment
- ▲ Desk Top Review

Surface Soil Samples

Average Pb

- Clean (<400 ppm)
- Non-Time Critical (400 - 1,199 ppm)
- Time Critical (>1,199 ppm)

Subsurface Soil Samples

Average Pb

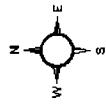
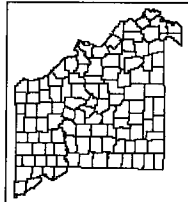
- Clean (<400 ppm)
- Non-Time Critical (400 - 1,199 ppm)
- Time Critical (>1,199 ppm)

Soil Background Samples

- Background Soil Samples

Project Boundaries

- One Mile Buffer of Smelter Locations



Missouri Department of Natural Resources
Division of Environmental Quality
St. Louis, MO 63101
Phone: (314) 241-2000
Fax: (314) 241-2001
Web: <http://www.dnr.mo.gov>

Although all data are used in various ways, they have been compiled for the Missouri Department of Natural Resources, its members, and the public. The data are not intended to be used for any other purpose without the express written consent of the Missouri Department of Natural Resources. The use of data herein shall not constitute an endorsement of any product or service by the Missouri Department of Natural Resources.



| TABLE 2. XRF RESULTS FOR SOIL SAMPLES COLLECTED NOVEMBER 16 AND 17, 2004 M. HOLTZMAN METAL CO., ST. LOUIS, MISSOURI | | | | |
|--|------------|---------------|---------------|--------------|
| • All values listed in parts per million (mg/kg) • NL denotes benchmark value not listed in reference source • Sample results in bold are significantly above background concentrations • Circled sample results exceed EPA PRG Residential Use Value | | | | |
| Location | XRF Sample | Sample ID | Sample Type | Pb Average |
| 614 Withers | HWP040039 | HLOT01V01SB01 | SB | 350.7 |
| | HWP040040 | HLOT01V01SS01 | SS | 375.1 |
| 2140 Adelaide | HWP040041 | HLOT02V01SS02 | SS | 123.6 |
| O'Fallon Park | HWP040042 | HLOT03P01SB02 | SB | 63.0 |
| | HWP040043 | HLOT03P01SS03 | SS | 126.9 |
| | HWP040045 | HLOT03P02SS04 | SS | 93.2 |
| | HWP040047 | HLOT03P03SS05 | SS | 44.7 |
| | HWP040048 | HLOT03P04SS06 | SS | 415.7 |
| Windsor Park | HWP040049 | HLOT05P01SS09 | SS | 160.3 |
| | HWP040050 | HLOT05P02SS10 | SS | 144.3 |
| | HWP040051 | HLOT05P03SS11 | SS | 205.3 |
| 4616 Von Phul St. | HWP040053 | HLOT06V01SS12 | SS | 434.8 |
| 1440 Obear Ave. | HWP040055 | HLOT07V01SS13 | SS | 26.1 |
| 1902-1906 Desoto | HWP040056 | HLOT08V01SS14 | SS | 235.5 |
| 1907-1911 Desoto | HWP040057 | HLOT09V01SS15 | SS | 326.8 |
| | HWP040058 | HLOT09V02SS16 | SS | 557.8 |
| 2100-2110 John Ave. | HWP040059 | HLOT10V01SS17 | SS | 180.0 |
| 4257 19th Street | HWP040060 | HLOT11V01SS18 | SS | 210.2 |
| Average Background SS and SB | | | 88.2 and 41.0 | |
| SCDM ² | | | NL | |
| CALM ³ | | | 260 | |
| EPA PRG ⁴ | | | 400 | |

¹ Above the PQL when background concentration is < PQL, or three times the background concentration when contaminant is detected in background sample.

² SCDM - Superfund Chemical Data Matrix, January 28, 2004, lower of reference dose and cancer risk benchmarks for soil pathway.

³ CALM - Cleanup Levels for Missouri, September 2001, residential use.

⁴ EPA PRG - EPA Region 9 Preliminary Remedial Goals, October 2004, residential use.

* SB - subsurface soil sample collected from 3 -6 inches in depth.

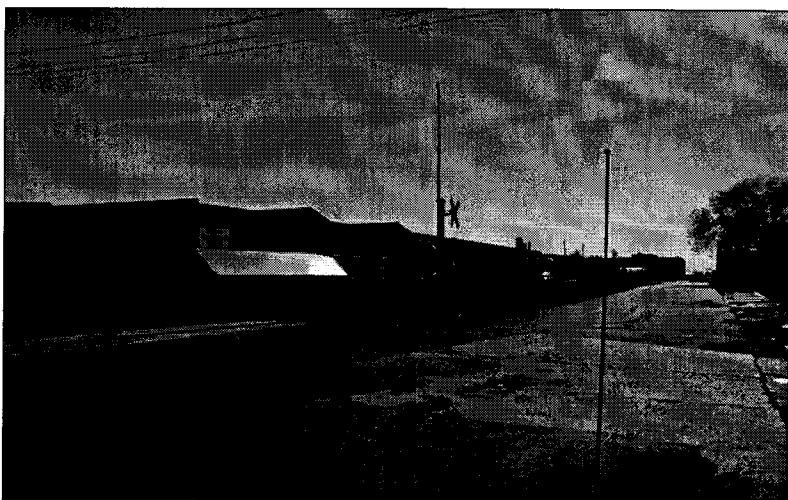
SS - surface soil sample collected from 0-2 inches in depth.



Photograph 1

M. Holtzman Metal Co. Site,
St. Louis, Missouri. Photo taken on
November 19, 2003 by Michael D.
Giovanini, DEQ, HWP, Superfund

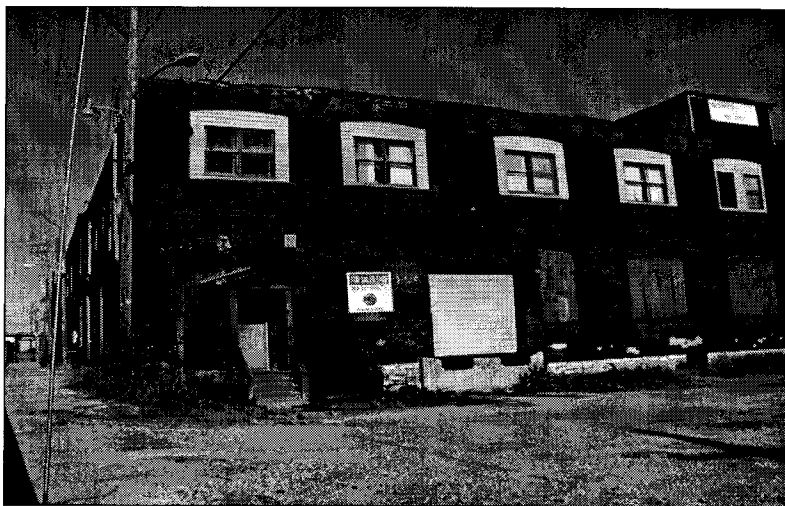
View of smelter location on McKissock
Street, presently the Missouri Pipe
Fitting Company building. View
looking east.



Photograph 2

M. Holtzman Metal Co. Site,
St. Louis, Missouri. Photo taken on
November 19, 2003 by Michael D.
Giovanini, DEQ, HWP, Superfund

View of smelter location on McKissock
Street, presently the Missouri Pipe Fitting
Company building located off of
Withers Street. View looking east.



Photograph 3

M. Holtzman Metal Co. Site,
St. Louis, Missouri. Photo taken on
November 19, 2003 by Michael D.
Giovanini, DEQ, HWP, Superfund

View of Trio Paper and Box Company
building located on the smelter block,
McKissock Street. View looking west.



Photograph 4

M. Holtzman Metal Co. Site,
St. Louis, Missouri. Photo taken on
November 16, 2004 by Michael D.
Giovanini, DEQ, HWP, Superfund

614 Withers, Sample location 1. View
looking southeast from Withers St.



Photograph 5

M. Holtzman Metal Co. Site,
St. Louis, Missouri. Photo taken on
November 16, 2004 by Michael D.
Giovanini, DEQ, HWP, Superfund

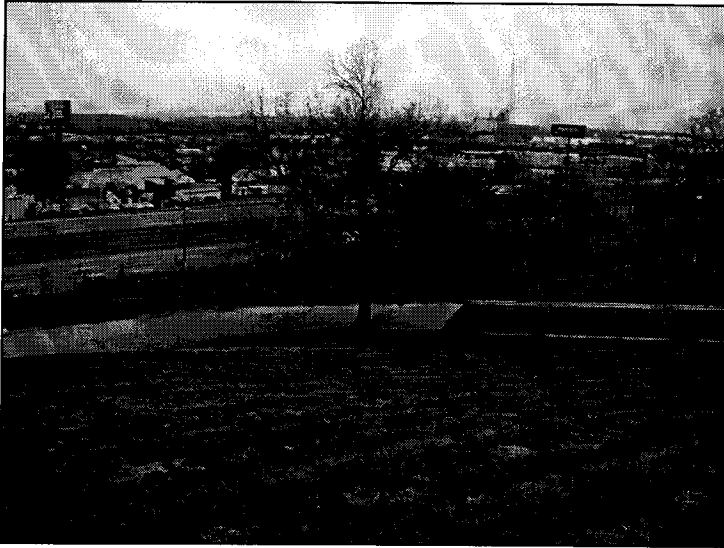
614 Withers, Sample location 1. View
looking south along Withers St.



Photograph 6

M. Holtzman Metal Co. Site,
St. Louis, Missouri. Photo taken on
November 16, 2004 by Michael D.
Giovanini, DEQ, HWP, Superfund

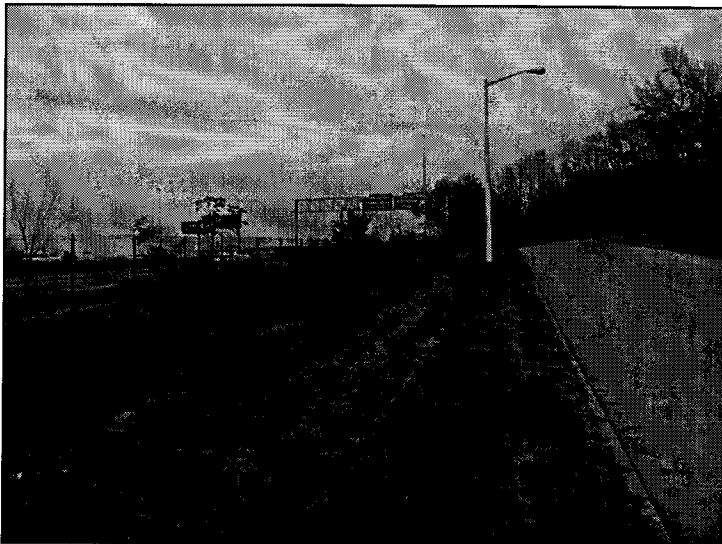
2140 Adelaide, Sample location 2. View
looking southeast from Adelaide St.



Photograph 7

M. Holtzman Metal Co. Site,
St. Louis, Missouri. Photo taken on
November 16, 2004 by Michael D.
Giovanini, DEQ, HWP, Superfund

O'Fallon Park, Sample location 3. View
looking east towards Interstate 70.



Photograph 8

M. Holtzman Metal Co. Site,
St. Louis, Missouri. Photo taken on
November 16, 2004 by Michael D.
Giovanini, DEQ, HWP, Superfund

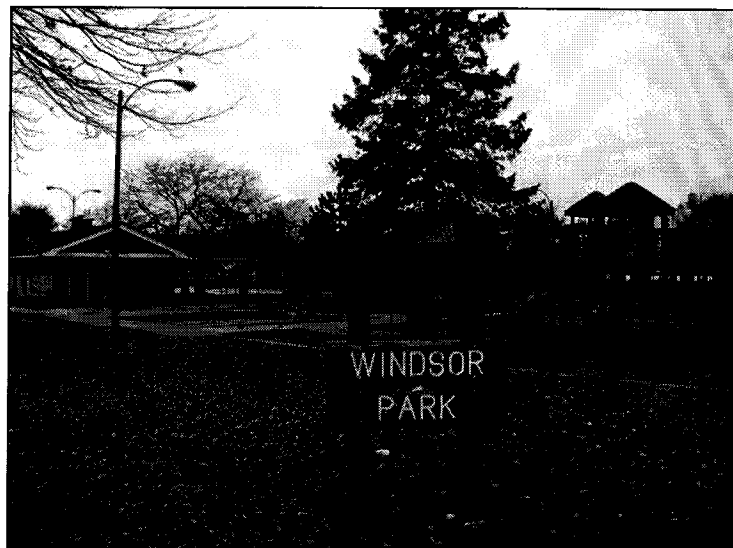
O'Fallon Park, Sample location 3. View
looking southeast along roadway sample
unit.



Photograph 9

M. Holtzman Metal Co. Site,
St. Louis, Missouri. Photo taken on
November 16, 2004 by Michael D.
Giovanini, DEQ, HWP, Superfund

O'Fallon Park, Sample location 3. View
looking north towards ballfield.



Photograph 10

M. Holtzman Metal Co. Site,
St. Louis, Missouri. Photo taken on
November 16, 2004 by Michael D.
Giovanini, DEQ, HWP, Superfund

Windsor Park, Sample location 5. View
looking south from Penrose St. and
Randall St.



Photograph 11

M. Holtzman Metal Co. Site,
St. Louis, Missouri. Photo taken on
November 16, 2004 by Michael D.
Giovanini, DEQ, HWP, Superfund

Windsor Park, Sample location 5. View
looking west from Angelica St.



Photograph 12

M. Holtzman Metal Co. Site,
St. Louis, Missouri. Photo taken on
November 17, 2004 by Michael D.
Giovanini, DEQ, HWP, Superfund

4616 Von Phul St., Sample location 6.
View looking east from Von Phul and
Obear St.



Photograph 13

M. Holtzman Metal Co. Site,
St. Louis, Missouri. Photo taken on
November 17, 2004 by Michael D.
Giovanini, DEQ, HWP, Superfund

1440 Obear Ave, Sample location 7.
View looking southeast.



Photograph 14

M. Holtzman Metal Co. Site,
St. Louis, Missouri. Photo taken on
November 17, 2004 by Michael D.
Giovanini, DEQ, HWP, Superfund

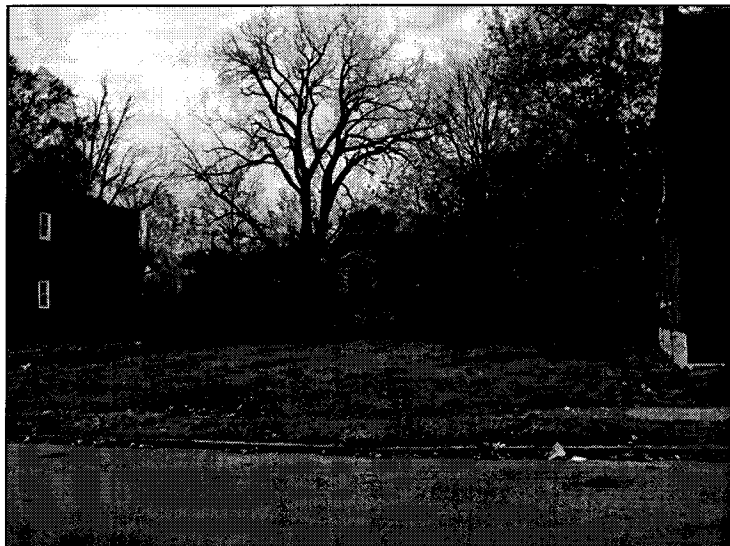
1902 - 1906 Desoto St., Sample location
8. View looking east.



Photograph 15

M. Holtzman Metal Co. Site,
St. Louis, Missouri. Photo taken on
November 17, 2004 by Michael D.
Giovanini, DEQ, HWP, Superfund

1902 - 1906 Desoto St., Sample location
8. View looking southeast.



Photograph 16

M. Holtzman Metal Co. Site,
St. Louis, Missouri. Photo taken on
November 17, 2004 by Michael D.
Giovanini, DEQ, HWP, Superfund

1907 - 1911 Desoto St., Sample location
9. View looking north from Desoto St.



Photograph 17

M. Holtzman Metal Co. Site,
St. Louis, Missouri. Photo taken on
November 17, 2004 by Michael D.
Giovanini, DEQ, HWP, Superfund

2100 - 2110 John Ave., Sample location
10. View looking east from John Ave.



Photograph 18

M. Holtzman Metal Co. Site,
St. Louis, Missouri. Photo taken on
November 17, 2004 by Michael D.
Giovanini, DEQ, HWP, Superfund

4257 19th St., Sample location 11. View
looking north towards 19th St.